CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/WNo.06/LG/CSR-04/027o/CEMENT/2016-17 Date: 02.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. L. Gangadhar** No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.
*NAME OF THE WORK	:	Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	30.04.2016
PERIOD OF TESTING	:	30.04.2016 to 02.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AE-06 n/a

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ob No.: CTCE/BBMP/WNo.06/LG/CSR-04/027o/SAND-Gradation/2016-17 : 02.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. L. Gangadhar**
No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.

*** Name of Work** : Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 1

Sample Received on : 30.04.2016

Date of Testing : 02.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	50.70	30-70	55-90	75-100	90-100
600 Micron	20.30	15-34	35-59	60-79	80-100
300 Micron	9.80	5-20	8-30	12-40	15-50
150 Micron	3.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/WNo.06/LG/CSR-04/027o/AGG/GR/2016-17 : 02.05.2016

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. L. Gangadhar**
No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.

*** Name of Work** : Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 1

Sample Received on : 30.04.2016

Date of Testing : 02.05.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.54	95-100	85-100
20	46.30	30-70	0-20
10	13.54	10-35	0-5
4.75	2.01	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/WNo.06/LG/STEEL/2016-17 10.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Gangadhar** No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.
Name of the Work	:	Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016
Date of Test	:	10.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	516	559	13.40	O.K	O.K

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AE-06 n/a

10/5

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.06/LG/STEEL/2016-17 10.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Gangadhar** No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.
Name of the Work	:	Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016
Date of Test	:	10.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	519	564	13.60	O.K	O.K

AE-06 21/4 ON 10/5

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ಬ.ಬ.ಆ.ಪ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/WNo.06/LG/CSR-04/027o/CUBE/2016-17 30.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. L. Gangadhar**
No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.

*** Name of the work** : Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 30.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2016	30.05.2016	8.158	478.4	21.26
2	02.05.2016	30.05.2016	8.232	490.5	21.80
3	02.05.2016	30.05.2016	8.355	502.9	22.35

* Information is furnished by the Customer/Representative

AE-06 n/a 30/5

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Job No.: CTCE/BBMP/WNo.06/LG/CSR-04/027o/CUBE/2016-17 30.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. L. Gangadhar**
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*** Name of the work** : Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 30.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2016	30.05.2016	8.231	480.9	21.37
2	02.05.2016	30.05.2016	8.389	495.4	22.02
3	02.05.2016	30.05.2016	8.454	515.6	22.92

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Reference	: BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 30.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2016	30.05.2016	8.165	472.4	21.00
2	02.05.2016	30.05.2016	8.285	485.5	21.58
3	02.05.2016	30.05.2016	8.359	505.4	22.46

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30/5

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 31.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.05.2016	31.05.2016	8.218	487.4	21.66
2	03.05.2016	31.05.2016	8.350	506.7	22.52
3	03.05.2016	31.05.2016	8.197	474.8	21.10

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*** Agency** : **Mr. L. Gangadhar**
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*** Name of the work** : Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 31.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.05.2016	31.05.2016	8.156	478.2	21.25
2	03.05.2016	31.05.2016	8.384	502.3	22.32
3	03.05.2016	31.05.2016	8.269	488.9	21.73

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. L. Gangadhar**
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Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 31.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.05.2016	31.05.2016	8.164	481.4	21.40
2	03.05.2016	31.05.2016	8.272	496.8	22.08
3	03.05.2016	31.05.2016	8.389	513.4	22.82

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Job No.: CTCE/BBMP/WNo.06/LG/CSR-04/027o/CUBE/2016-17 20.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. L. Gangadhar**
No. 22, 2nd Cross, Lingappa Block, R.T. Nagara, Bangalore - 32.

*** Name of the work** : Improvements to roads and drains at Sadiq Layout in Ward No. 6, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/11/2016-17 Dated: 30.04.2016

*** Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7^{th} day

Sample Received on : 20.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.05.2016	20.05.2016	8.215	342.6	15.23
2	13.05.2016	20.05.2016	8.326	359.7	15.99
3	13.05.2016	20.05.2016	8.416	368.2	16.36

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